

by-bit XOR link or an equivalent logic function of the coding of the one signal and the coding of the respective position in the transmission sequence.

25. (New) The method as recited in claim 24 wherein certain strings of the pseudo-random sequence are used for coding the signals and positions in the transmission sequence, and wherein the authentication token of a one of the signals transmitted at an i-th position is calculated as a function of the coding of all previously transmitted signals and the coding of the respective position in the transmission sequence.

26. (New) The method as recited in claim 25 wherein the authentication token of the one signal transmitted at the i-th position is a bit-by-bit XOR link or an equivalent logic link of the coding of all the previously transmitted signals and the coding of the respective position in the transmission sequence.

27. (New) The method as recited in claim 24 wherein the at least one cryptographic algorithm includes a block cipher, the block cipher including a data encryption standard.

28. (New) The method as recited in claim 24 wherein the at least one cryptographic algorithm includes a block cipher, the pseudo-random sequence being generated by operating the block cipher in a known output feedback mode.

29. (New) The method as recited in claim 24 wherein the communication phase further includes calculating another token for authentication of the transmitter, the other token being subsequently transmitted so as to initialize the receiver for authentication of the transmitter.

30. (New) A method for transmitting signals between a transmitter and a receiver, the method comprising:

calculating data as a function of a secret key using at least one cryptographic algorithm in a calculation phase, the calculation phase including generating a pseudo-random sequence, certain strings of the pseudo-random sequence being used for coding the signals and positions in the transmission sequence, and wherein the authentication token of one of the signals